

An Apps Store for SME

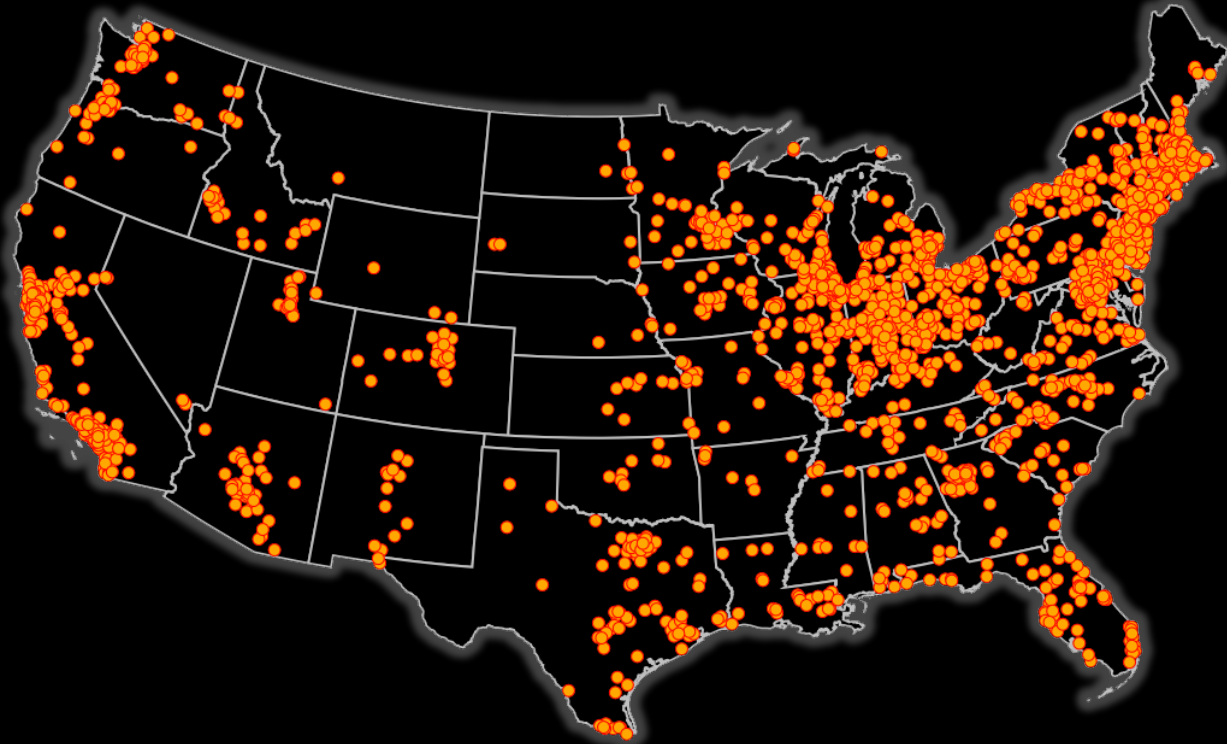
Early Success is Possible

Gerhard Klimeck

Purdue University

Prof. for Electrical and Computer Engineering

Director Network for Computational Nanotechnology



nanoHUB.org => manufacturingHUB.org

- What is nanoHUB?

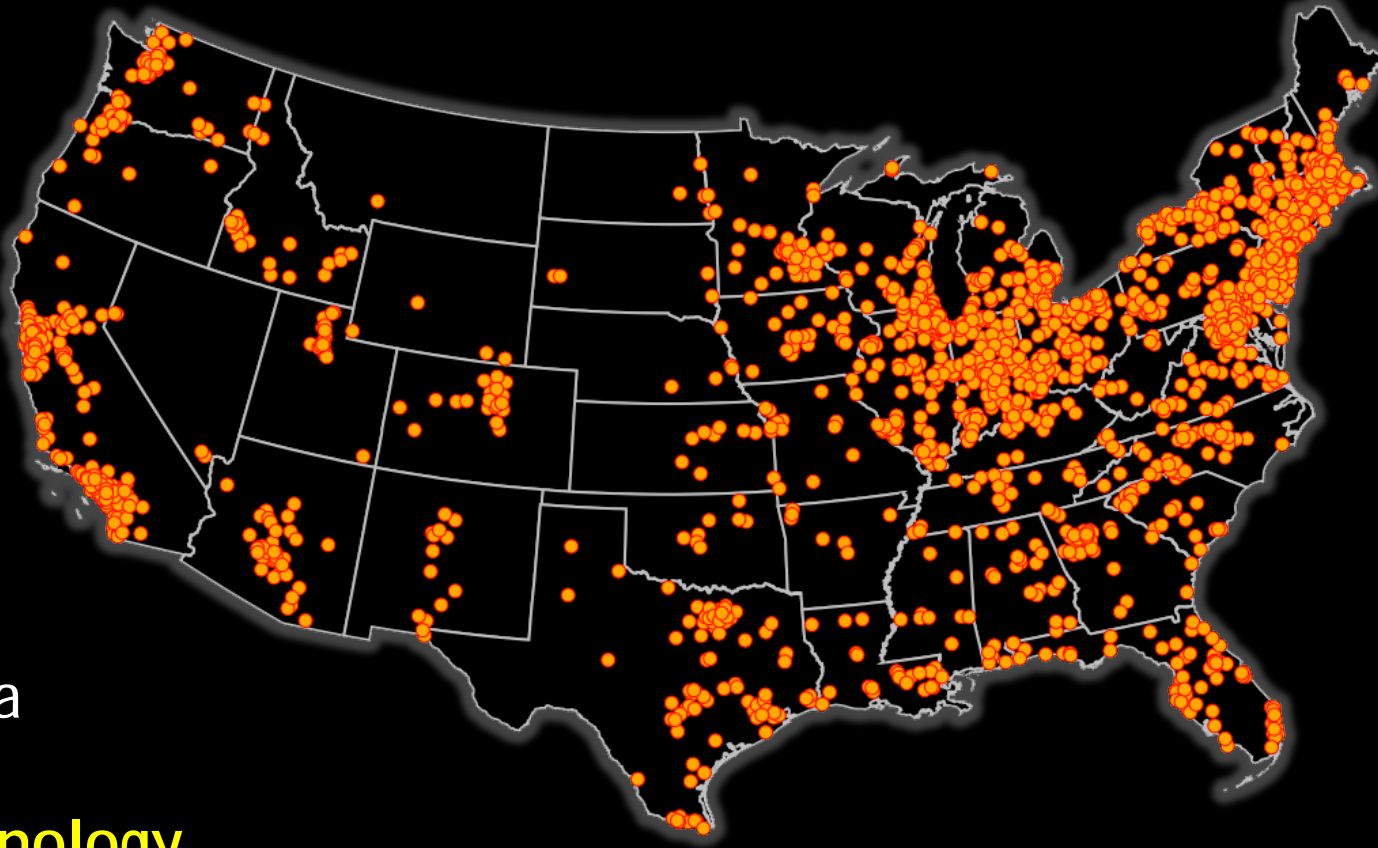
- Workforce Development

- Industry Impact

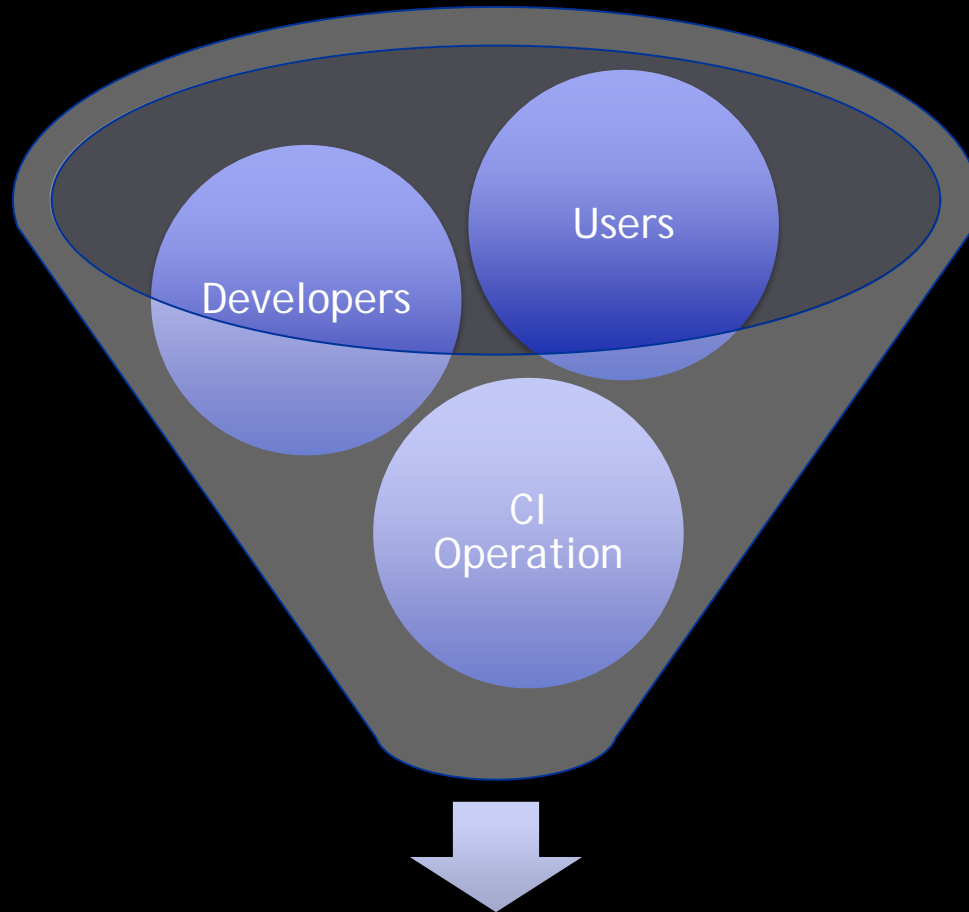
- Understanding Users

- Success Criteria

- **HUBzero Technology**



Requirements



Vibrant and Impactful VO

Hubs 'R Us



- Feb 2007: 1 hub
- Feb 2008: 5 hubs
- Feb 2009: 8 hubs
- Feb 2010: 21 hubs
- Sept 2010: >30 hubs

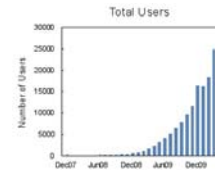
Each hub has its own funding stream

Outside institutions:
EPA, NYSTAR, Rice

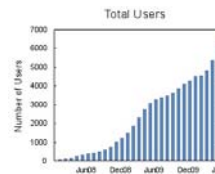
HUBzero Consortium



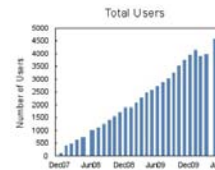
Other Hubs



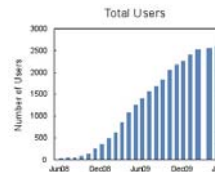
29,707 users worldwide



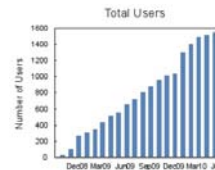
7,725 users worldwide



4,296 users worldwide

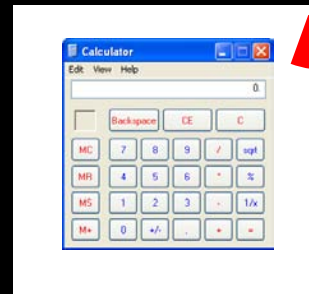
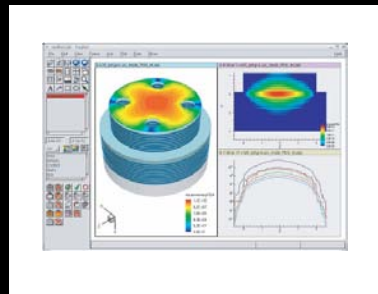
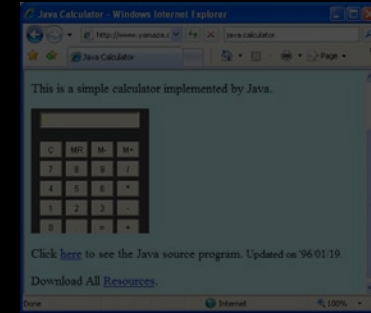


2,465 users worldwide



1,496 users worldwide

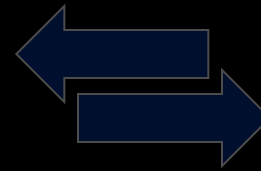
Web-enabling Tools



Vendor

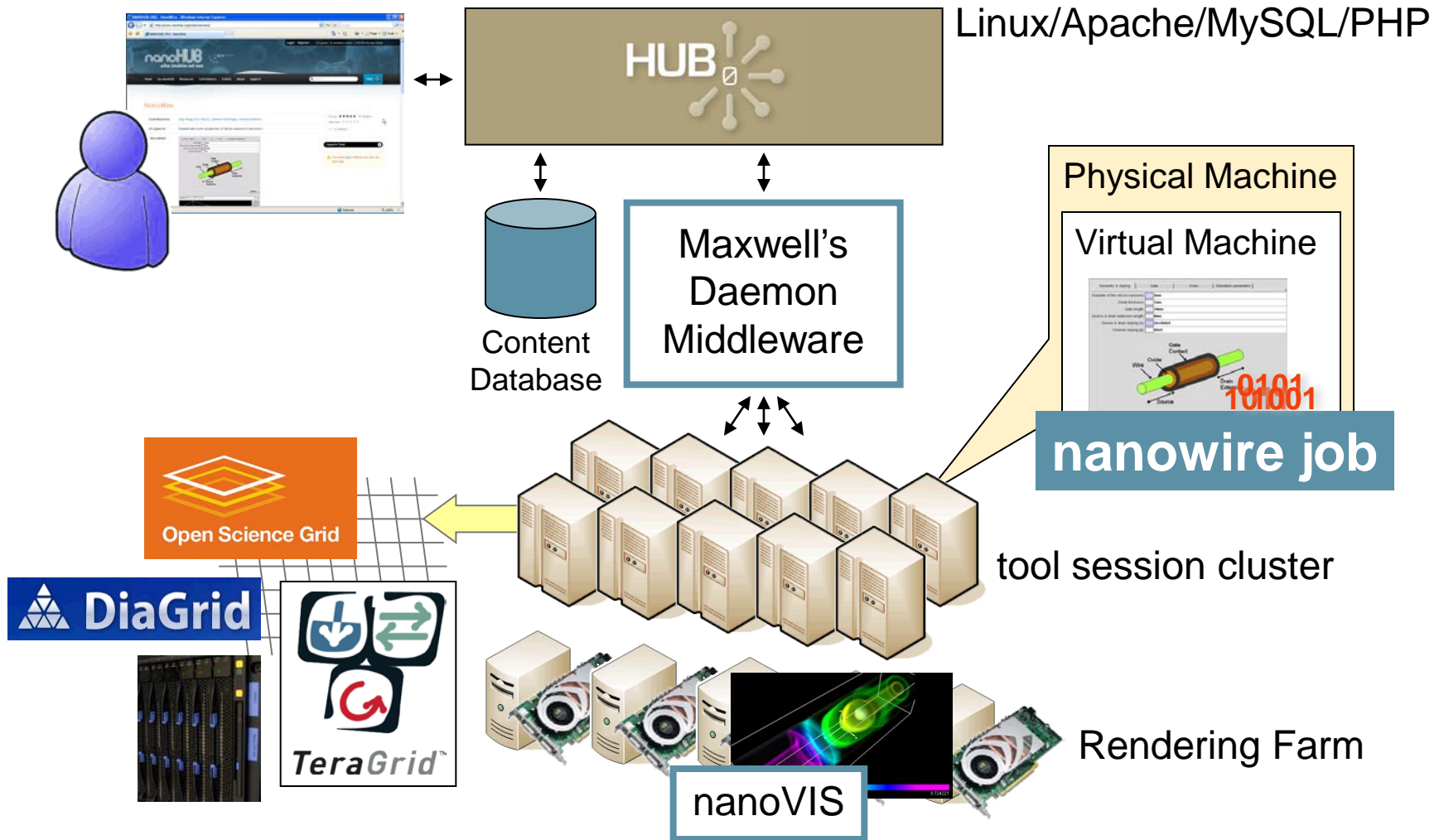


Scientist

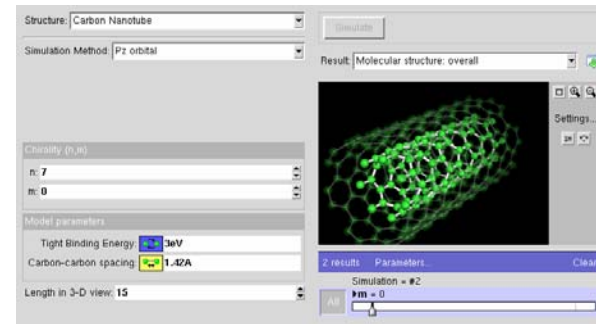
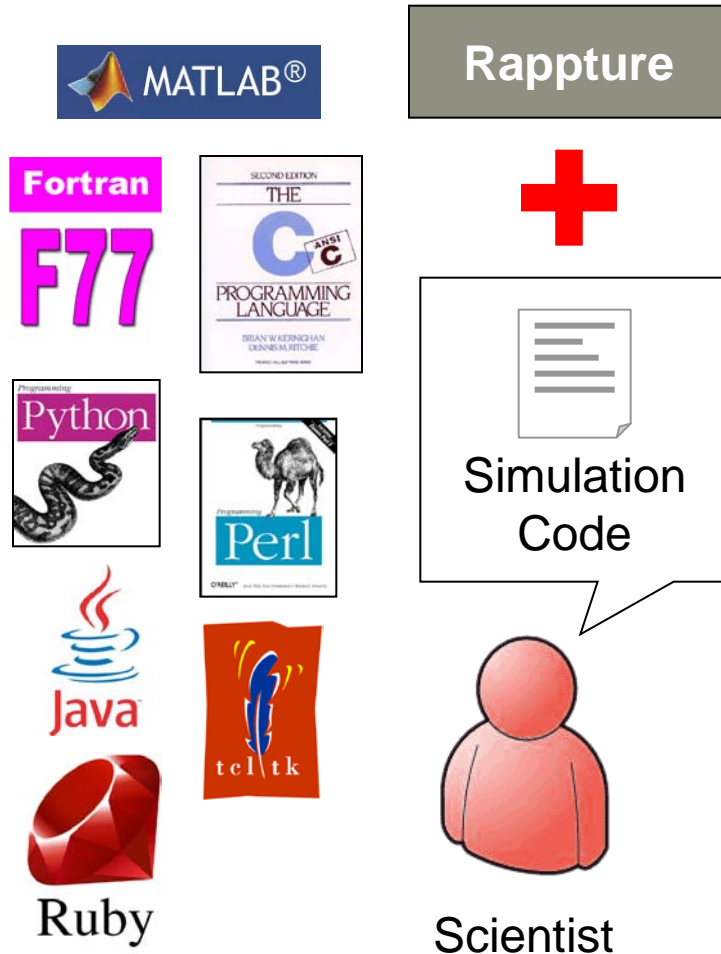


Web Developer

Cyberinfrastructure for Running Tools



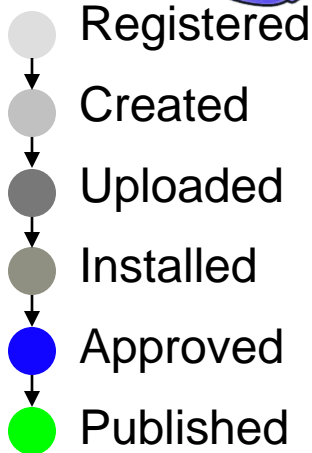
Rappture: Rapid Application Infrastructure



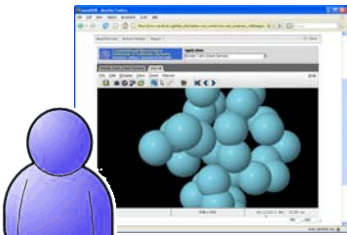
- Works with your favorite programming language
- Open Source
- Online at <http://rappture.org>
- Used by 200 projects and 300 developers

Cyberinfrastructure for Developing Tools

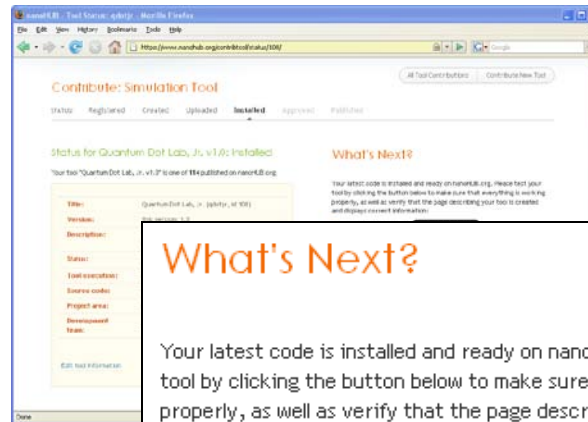
Tool Developer



End User



Web-based Publishing System



What's Next?

Your latest code is installed and ready on nanoHUB.org. Please test your tool by clicking the button below to make sure that everything is working properly, as well as verify that the page describing your tool is created and displays correct information:

- ➔ Test your application: **Launch tool**
- ➔ [Review the page describing your tool](#)

We're waiting for You

Once you tested your tool and verified that it is working properly, click here to let us know:

- ➔ [My tool is working properly. I approve it.](#)

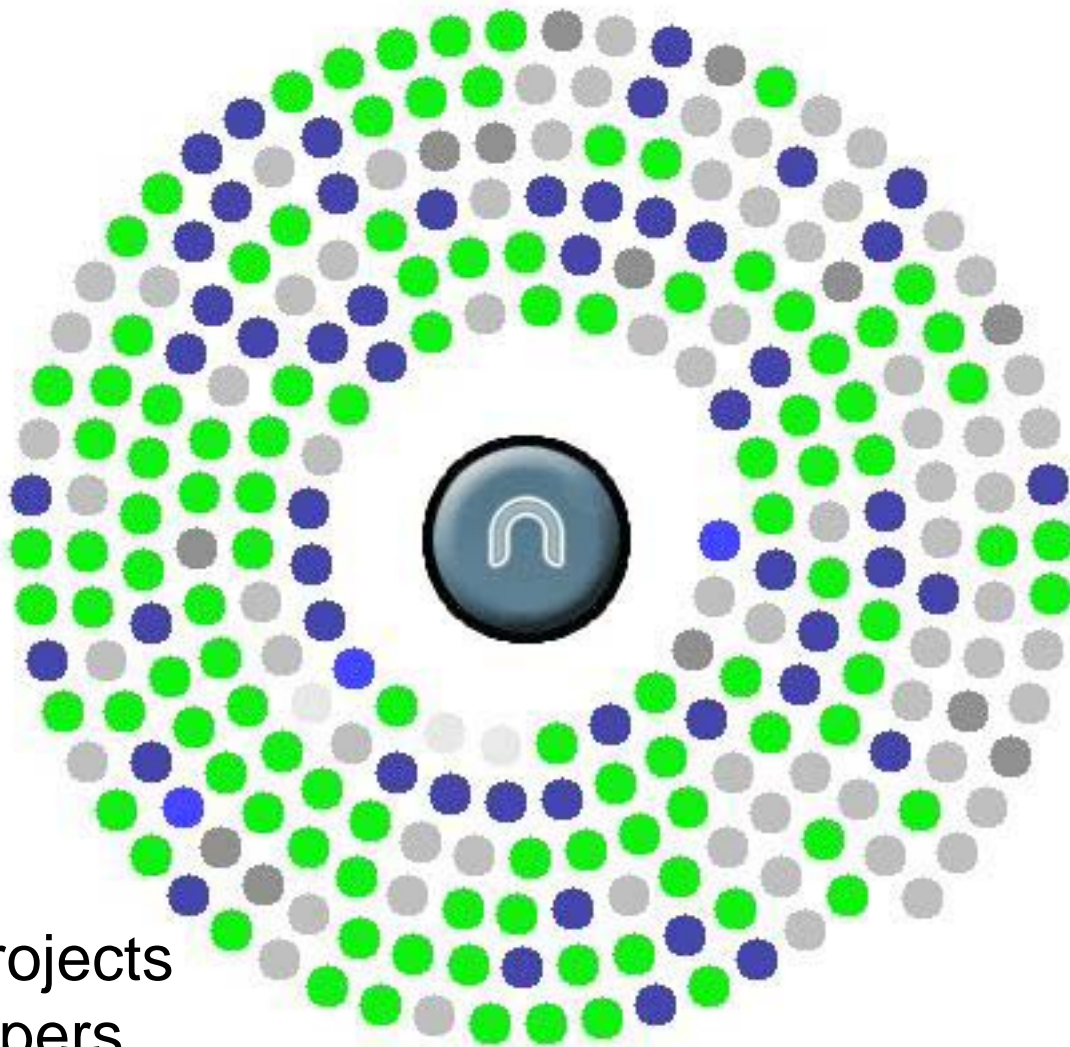
Need to make changes? Once you've checked in your latest fixes, click here to let us know:

- ➔ [I've fixed my code. Please install the latest updates.](#)

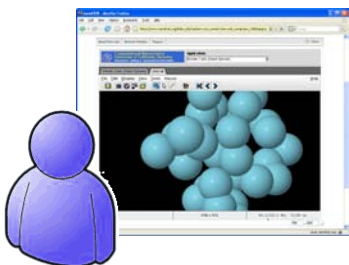
January 1, 2009



- Registered
- ↓
- Created
- ↓
- Uploaded
- ↓
- Installed
- ↓
- Approved
- ↓
- Published



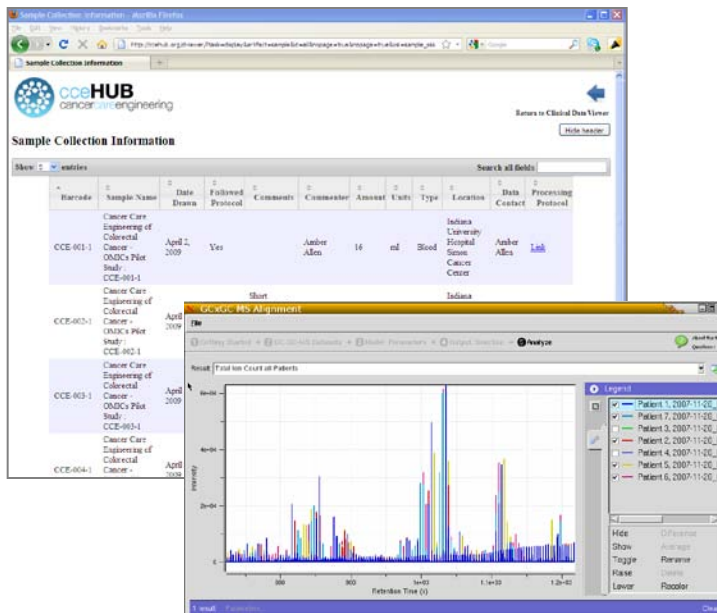
>200 S/W projects
>300 developers
Managed by ONE person!



Managing Research Data

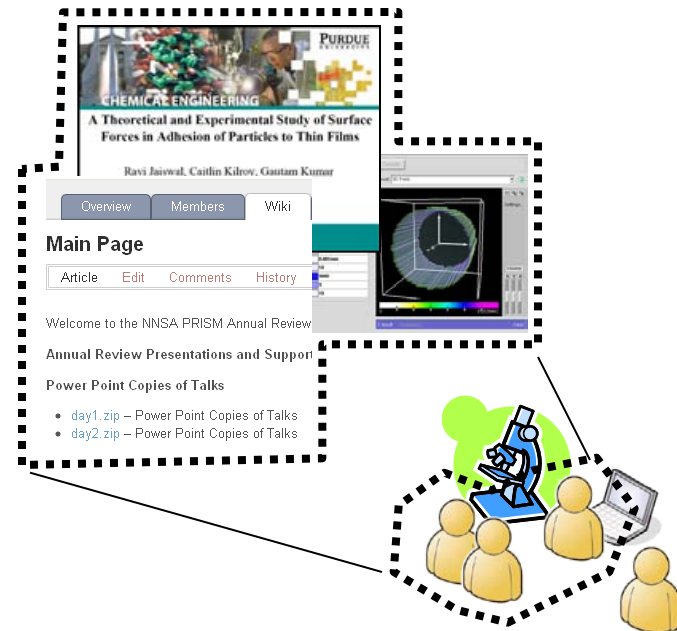
Two Solutions

Structured Data



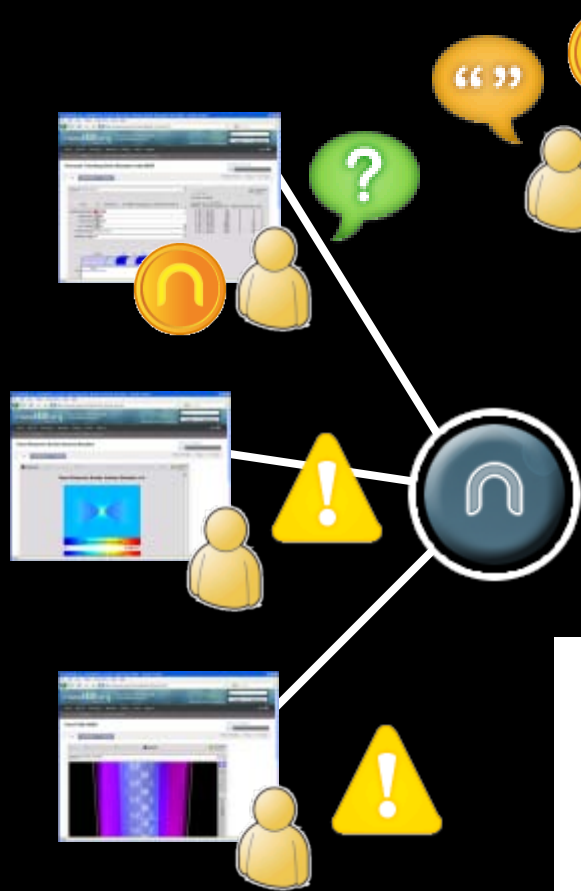
Experimental data, Spreadsheets, etc.

Project Notes



Wiki notes, share files, write papers, etc.

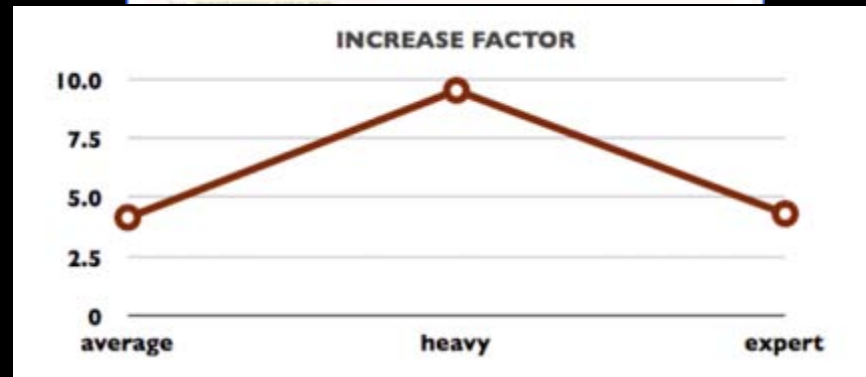
Support - Q&A Forum



Question & Answer Forum



HUBzero supports the community



Incentive System

Support - Wish Lists

The central image is a screenshot of the nanoHUB.org website's 'Wish List' page. The page title is 'Wish List: nanoHUB.org'. It features a list of wishes with columns for 'Wishes', 'Points', and 'Wishes by nanoHUB.org for fundraising and more'. The wishes listed include:

- Wishes to create online visualization module
- More features of 2d visualization tool
- Single entities should be combined in Topology
- Topology Changes for Materials
- Cost amount of user storage
- Get papers and software support should have the ability

Surrounding the central screenshot are several icons and smaller screenshots:

- Top left: A screenshot of a user interface with a thumbs-up icon, a person icon, and a glowing lightbulb icon.
- Bottom left: A screenshot of a user interface with a thumbs-up icon, a person icon, a glowing lightbulb icon, and three gold coins.
- Right side: Three smaller screenshots of user interfaces, each accompanied by a group of blue person icons.
- Far right: A logo with the word 'HUB' and a network diagram, with a group of blue person icons below it.
- Bottom right: A screenshot of a user interface with a group of blue person icons.

Community can vote
on wishes and
bid points for fulfillment

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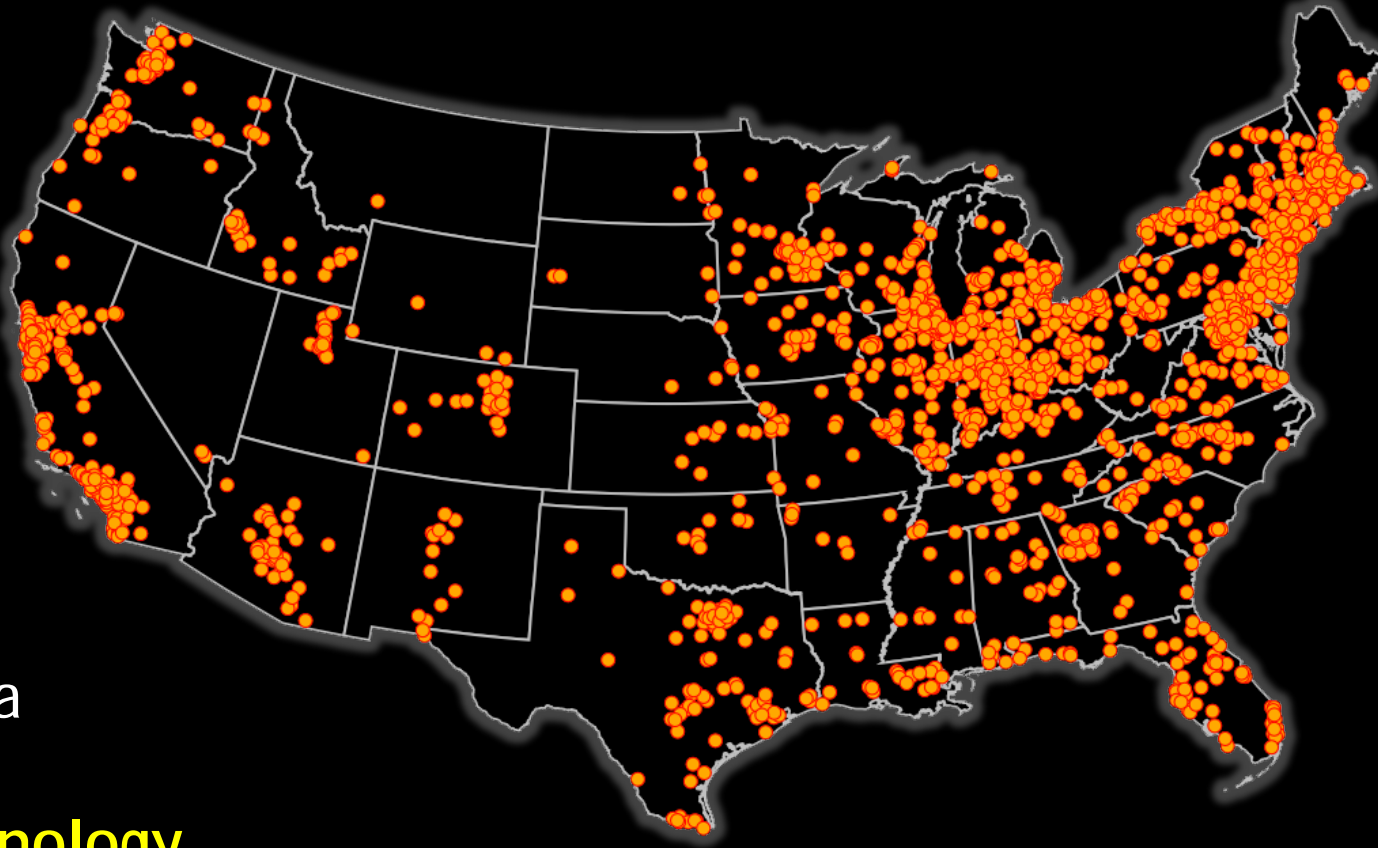
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An Apps Store for SME

Early Success is Possible

SME's need Modeling and Simulation

nanoHUB.org proves we can deliver

TAP and HUBzero can pilot this in Indiana

